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PATENT
670001-20046
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants(s) : ANDERSEN et al.

U.S. Serial No.: 09/872,505

Filing Date : June 1, 2001

For : NUCLEIC ACID FRAGMENTS DERIVED FROM M.
TUBERCULOSIS

Art Unit : 1645

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Further to the Information Disclosure Statement filed on February 3, 2003, the
Commissioner's attention is respectfully directed to the enclosed documents which are set forth
on the accompanying form PTO-1449. As this Information Disclosure Statement is being filed
before the mailing of the first Office Action on the merits, it is believed that no fee is required for

entry of this paper. However, the Commissioner is hereby authorized to charge any such fee, or credit any overpayment to Deposit Account 50-0230.

The filing of this Information Disclosure Statement is not an admission that the documents identified herein constitute prior art to the present application.

Applicants respectfully request that the Examiner considers and make of record the documents cited herewith and that a copy of Form PTO-1449 be initialed by the Examiner and returned to the undersigned.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP

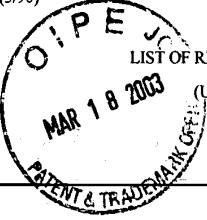
By:



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Sheet 1 of 2

MAR 25 2003 Based on Form PTO-1449 (3/90)  TECH CENTER 1600/2900 LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. 670001-2002.6	SERIAL NO. 09/872,505		
				APPLICANT ANDERSEN ET AL.			
				FILING DATE June 1, 2001	GROUP 1645		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	AB						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<input checked="" type="checkbox"/>	AC	Andersen, P. et al., June 1991, Proteins released from Mycobacterium Tuberculosis during growth, Infect. Immun. 59(6): 1905-1910					
<input checked="" type="checkbox"/>	AD	Baldwin, S.L. et al., June 1998, Evaluation of new vaccines in the mouse and guinea pig model of tuberculosis, Infect. Immun. 66(6):2951-2959					
<input checked="" type="checkbox"/>	AE	Boesen, H. et al., April 1995, Human T-cell responses to secreted antigen fractions of Mycobacterium tuberculosis, Infect. Immun. 63(4): 1491-1497					
<input checked="" type="checkbox"/>	AF	Brandt et al., 1996, Key epitopes on the ESAT-6 antigen recognized in mice during the recall of protective immunity to Mycobacterium tuberculosis, J. Immunol. 157:3527-3533					
<input checked="" type="checkbox"/>	AG	Brandt L. et al., February 2000, ESAT-6 subunit vaccination against Mycobacterium tuberculosis, Infect. Immun. 68:791-795					
<input checked="" type="checkbox"/>	AH	Cole, S.T. et al., June 1998, Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence, Nature 393:537-544					
<input checked="" type="checkbox"/>	AI	Horwitz et al., February 1995, Protective immunity against tuberculosis induced by vaccination with major extracellular proteins of Mycobacterium tuberculosis, Proc. Natl. Acad. Sci. USA.92:1530-1534					
<input checked="" type="checkbox"/>	AJ	Olsen A. W. et al., June 2000, Efficient protection against Mycobacterium tuberculosis by vaccination with a single subdominant epitope from the ESAT-6 antigen, Eur J. Immunol. 30(6):1724-1732					
<input checked="" type="checkbox"/>	AK	Ravn, P. et al., March 1999, Human T Cell responses to ESAT-6 antigen from Mycobacterium tuberculosis, J. Infect. Dis. 179:637-645					
<input checked="" type="checkbox"/>	AL	Roche, P.W. et al. December 1994, T-cell determinants and antibody binding sites on the major mycobacterial secretory protein MPB59 of Mycobacterium bovis, Infect. Immun.62(12):5319-5326					
<input checked="" type="checkbox"/>	AM	Rosenkrands, I., et al., Identification and characterization of a 29-kilodalton protein from Mycobacterium tuberculosis culture filtrate recognized by mouse memory effector cells, Infect. Immun 66(6); 2728-2735					
<input checked="" type="checkbox"/>	AN	Skjøt, R.L.V., et al., January 2000, Comparative evaluation of low-molecular-mass proteins from Mycobacterium tuberculosis identifies members of the ESAT-6 family as immunodominant T-cell antigens, Infect. Immun. 68(1):214-220					
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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Based on Form PTO-1449 (3/90)			ATTY. DOCKET NO. 670001-2002.6	SERIAL NO. 09/872,505		
TECH CENTER 1600 2900 MAR 18 2003 U.S. PATENT & TRADEMARK OFFICE			APPLICANT ANDERSEN ET AL.			
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U.S. PATENT DOCUMENTS						
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FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS
	AC					
	AD					
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
	AE	Stryhn, A., et al., 1996, Peptide binding specificity of major histocompatibility complex class I resolved into an array of apparently independent subspecificities: quantitation by peptide libraries and improved prediction of binding, Eur. J. Immunol. 26:1911-1918				
	AF	Ulrichs, T. et al., 1998, Differential T cell responses to Mycobacterium tuberculosis ESAT6 in tuberculosis patients and healthy donors, Eur. J. Immunol. 28:3949-3958				
	AG	P. Andersen et al., Identification of Immunodominant antigens during infection with mycobacterium tuberculosis, J. Immunol. 156, 823-831, 1992				
	AH	Peter Andersen et al., Proteins released from mycobacterium tuberculosis during growth, Infection and Immunity, June 1991, vol. 59, no. 6, p. 1905-1910				
	AI	Peter Andersen et al., Specificity of a protective memory immune response against mycobacterium tuberculosis, Infection and Immunity, March 1993, vol. 61, no. 3, p. 844-851				
	AJ	Peter Andersen et al., T-cell proliferative response to antigens secreted by mycobacterium tuberculosis, Infection and Immunity, April 1991, vol. 59, no. 4, p. 1558-1563				
	AK	Kris Huygen et al., Spleen cell cytokine secretion in mycobacterium bovis BCG-infected mice, infection and immunity, July 1992, vol. 60, no. 7, p. 2880-2886				
	AL	Christiane Abou-Zeid et al., Characterization of fibronectin-binding antigens released by mycobacterium tuberculosis and mycobacterium bovis BCG, Infection and Immunity, Dec. 1988, vol. 56, no. 12, p. 3046-3051				
	AM	Martine Borremans et al., Cloning sequence determination, and expression of a 32- kilodalton-protein gene of mycobacterium tuberculosis, Infection and Immunity, Oct. 1989, vol. 57, no. 10, p. 3123-3130				
	AN	Peter Andersen, Effective vaccination of mice against mycobacterium tuberculosis infection with a soluble mixture of secreted mycobacterial proteins, Infection and Immunity, June 1994, vol. 62, no. 6				
	AO	Nagai et al., Isolation and partial characterization of major protein antigens in the culture fluid of mycobacterium tuberculosis, Infection and Immunity, January 1991, vol. 59, no. 1, p. 372-382				
	AP					
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